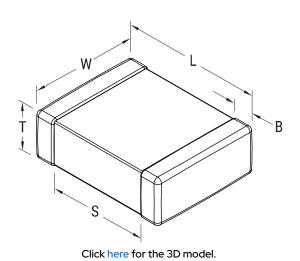


C0603C121J1GACTU

Aliases (C0603C121J1GAC7867) SMD Comm COG, Ceramic, 120 pF, 5%, 100 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0603, 0.5 mm



General Information	
Series	SMD Comm COG
Style	SMD Chip
Description	SMD, MLCC, Ultra-Stable, Low Loss, Class I
Features	Ultra-Stable, Low Loss, Class I
RoHS	Yes
Termination	Tin
Marking	No
AEC-Q200	No
Typical Component Weight	3.7 mg
Shelf Life	78 Weeks
MSL	1

Dimensions	
Chip Size	0603
L	1.6mm +/-0.15mm
W	0.8mm +/-0.15mm
Т	0.8mm +/-0.07mm
S	0.5mm MIN
В	0.35mm +/-0.15mm

Voltage DC 0.8mm +/-0.07mm Voltage DC 100 VDC 0.5mm MIN Dielectric Withstanding Voltage 250 VDC Temperature Range -55/+125°C Temp. Coefficient Cog Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) Dissipation Factor 0.1% 1 MHz 1.0Vrms	W	0.8mm +/-0.15mm	Tolerance	5%
Temperature Range -55/+125°C Temp. Coefficient COG Packaging Specifications Packaging Quantity 4000 Temperature Range -55/+125°C Temp. Coefficient COG Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) Applied (TCC)	Т	0.8mm +/-0.07mm	Voltage DC	100 VDC
Temp. Coefficient COG Packaging Specifications Packaging T&R, 180mm, Paper Tape Packaging Quantity 4000 Temp. Coefficient COG Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	5	0.5mm MIN	Dielectric Withstanding Voltage	250 VDC
Packaging Specifications Capacitance Change with 30 ppm/C, 1MegaHz 1.0Vrms Reference to +25°C and 0 VDC Applied (TCC) Packaging Quantity 4000	В	0.35mm +/-0.15mm	Temperature Range	-55/+125°C
Packaging Quantity 4000 T&R, 180mm, Paper Tape Reference to +25°C and 0 VDC Applied (TCC)			Temp. Coefficient	COG
Applied (TCC)	Packaging Specifications		Capacitance Change with	30 ppm/C, 1MegaHz 1.0Vrms
Packaging Quantity 4000 Dissipation Factor 0.1% 1 MHz 1.0Vrms	Packaging	T&R, 180mm, Paper Tape	Reference to +25°C and 0 VDC	.,,,,
	Packaging Quantity	4000	Dissipation Factor	0.1% 1 MHz 1.0Vrms

Specifications

Capacitance	120 pF
Measurement Condition	1 MHz 1.0Vrms
Tolerance	5%
Voltage DC	100 VDC
Dielectric Withstanding Voltage	250 VDC
Temperature Range	-55/+125°C
Temp. Coefficient	COG
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	30 ppm/C, 1MegaHz 1.0Vrms
Dissipation Factor	0.1% 1 MHz 1.0Vrms
Aging Rate	0% Loss/Decade Hour
Insulation Resistance	100 GOhms

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

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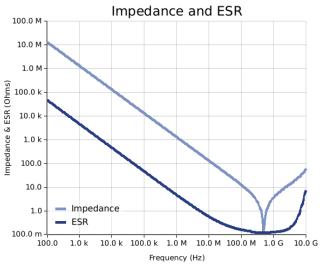


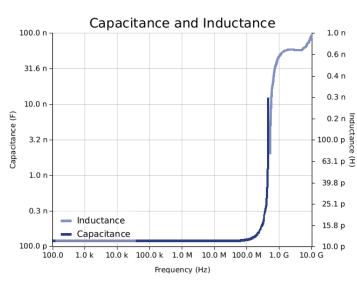
C0603C121J1GACTU

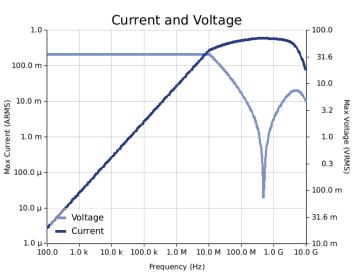
Aliases (C0603C121J1GAC7867) SMD Comm C0G, Ceramic, 120 pF, 5%, 100 VDC, C0G, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0603, 0.5 mm

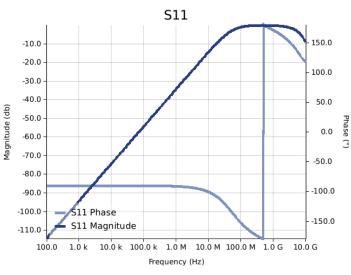
Simulations

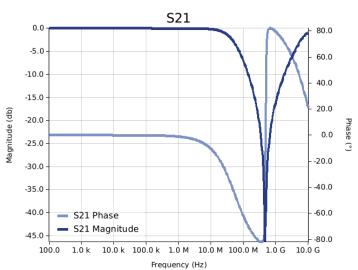
For the complete simulation environment please visit K-SIM.











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C0603C121J1GACTU

Aliases (C0603C121J1GAC7867) SMD Comm COG, Ceramic, 120 pF, 5%, 100 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0603, 0.5 mm

These are simulations.

This is not a specification!

The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

The responses shown do not represent a specified or implied maximum capability of the device for all applications.

- The ESR used for ripple "Ripple Current/Voltage vs. Frequency" plots is the ESR at ambient temperature.

- The ESR used for ripple Ripple Currenty votage vs. rrequency plots is unleast at an interact temperature.
 The ESR in the "Temperature Rise vs. Ripple Current" plots is adjusted to each incremental temperature rise before the power and ripple current is calculated.
 The effects shown herein are based on measured data from a multiple part sample of the parts in question.
 Ripple capability of this device will be factored by thermal resistance (Rth) created by circuit traces (addi affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.
 The peak voltages generated in the "Temperature Rise vs. Combined Ripple Currents" plot are calculated for each frequency and are not combined with voltages
- generated at any other harmonics.

 Please consult with the catalog or field applications engineer for maximum capability of the device in specific applications.

All product information and data (collectively, the "Information") are subject to change without notice.

KEMET K-SIM is designed to simulate behavior of components with respect to frequency, ambient temperature, and DC bias levels. The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation effects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

All Information given herein is believed to be accurate and reliable, but is presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute – and we specifically disclaim – any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

If you have any questions please contact K-SIM.

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